Bid Item History Query

WSDOT's Unit Bid Analysis and Oman Systems BidTabs Pro

An explanation of how to use each system to analyze bid item costs

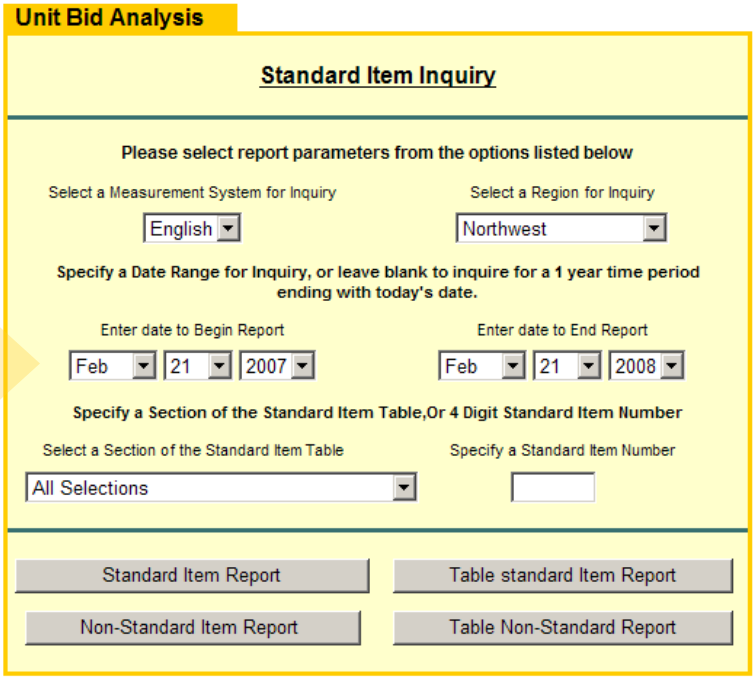
Unit Bid Analysis (U.B.A.)

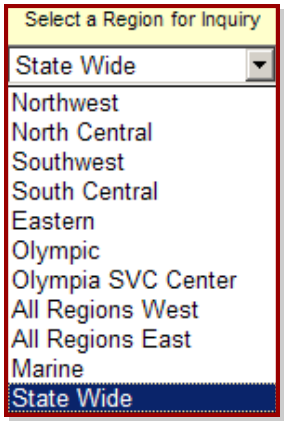
The Unit Bid Analysis is an internet based Query tool. This tool enables the user to search through the Unit Bid History for all contracts let by WSDOT from 2000 to current.

The Data collected by this system will return Bid Item data for the 3 lowest bidders by Standard Item number.

The easy to use dashboard allows the user to query for Standard Bid Items by Region, Date Range, and Section.

To Begin a query ——————————

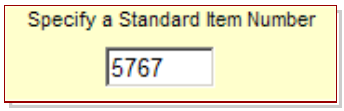


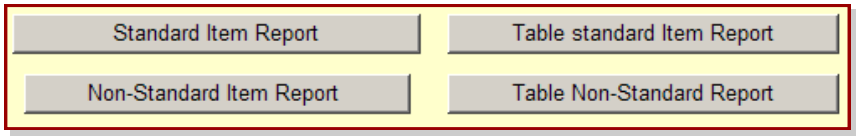


1. Select your region or area of interest.

2. Enter a date range for the item.
The default range is the last 12 months, but some items that are used less frequently will require a broader date range in order to retrieve enough data to analyze.

3. Enter a Standard Bid Item number for inquiry





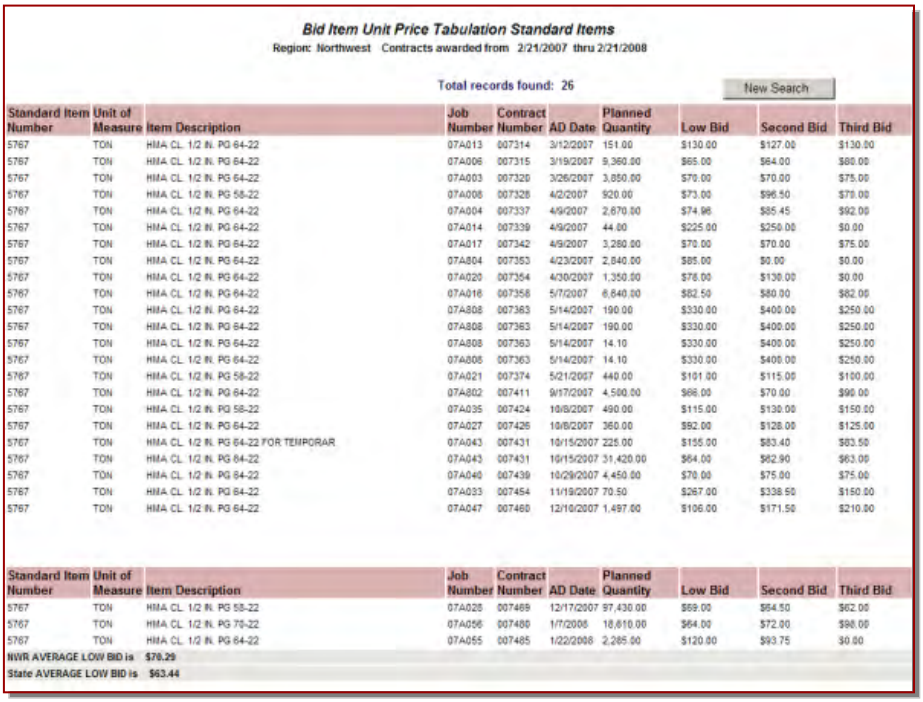
4. Select the report type to return.

For Standard Bid Items, select either:

STANDARD ITEM REPORT— Returns a report for viewing or printing, and includes the overall averages by Region and Statewide for the bid Item.

~ OR ~

TABLE STANDARD ITEM REPORT— Returns a report in EXCEL format, and includes the overall averages by Region and Statewide for the bid Item, as well as the totals those averages were based on.



Bid Item Unit Price Tabulation Standard Items

Region: Northwest Contracts awarded from 2/21/2007 thru 2/21/2008

Total records found: 26 New Search

Standard Item Number	Unit of Measure	Item Description	Job Number	Contract Number	AD Date	Planned Quantity	Low Bid	Second Bid	Third Bid
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A013	007314	3/12/2007	151.00	$130.00	$127.00	$130.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A006	007315	3/19/2007	9,360.00	$65.00	$64.00	$80.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A003	007320	3/26/2007	3,050.00	$70.00	$70.00	$75.00
5767	TON	HMA CL. 1/2 IN. PG 58-22	07A008	007328	4/2/2007	920.00	$73.00	$96.50	$78.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A004	007337	4/9/2007	2,670.00	$74.96	$85.45	$92.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A014	007339	4/9/2007	44.00	$225.00	$250.00	$0.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A017	007342	4/9/2007	3,280.00	$70.00	$70.00	$75.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A804	007353	4/23/2007	2,840.00	$85.00	$0.00	$0.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A020	007354	4/30/2007	1,350.00	$78.00	$130.00	$0.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A016	007358	5/7/2007	6,840.00	$82.50	$80.00	$82.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A808	007363	5/14/2007	190.00	$330.00	$400.00	$250.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A808	007363	5/14/2007	190.00	$330.00	$400.00	$250.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A808	007363	5/14/2007	14.10	$330.00	$400.00	$250.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A808	007363	5/14/2007	14.10	$330.00	$400.00	$250.00
5767	TON	HMA CL. 1/2 IN. PG 58-22	07A021	007374	5/21/2007	440.00	$101.00	$115.00	$100.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A802	007411	9/17/2007	4,500.00	$66.00	$70.00	$90.00
5767	TON	HMA CL. 1/2 IN. PG 58-22	07A035	007424	10/8/2007	490.00	$115.00	$130.00	$150.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A027	007426	10/8/2007	360.00	$82.00	$128.00	$125.00
5767	TON	HMA CL. 1/2 IN. PG 64-22 FOR TEMPORAR	07A043	007431	10/15/2007	225.00	$155.00	$83.40	$83.50
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A043	007431	10/15/2007	31,420.00	$64.00	$62.90	$63.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A040	007439	10/29/2007	4,450.00	$70.00	$75.00	$75.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A033	007454	11/19/2007	70.50	$267.00	$338.50	$150.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A047	007460	12/10/2007	1,497.00	$106.00	$171.50	$210.00

Standard Item Number	Unit of Measure	Item Description	Job Number	Contract Number	AD Date	Planned Quantity	Low Bid	Second Bid	Third Bid
5767	TON	HMA CL. 1/2 IN. PG 58-22	07A028	007469	12/17/2007	97,430.00	$69.00	$64.50	$62.00
5767	TON	HMA CL. 1/2 IN. PG 70-22	07A056	007480	1/7/2008	18,610.00	$64.00	$72.00	$98.00
5767	TON	HMA CL. 1/2 IN. PG 64-22	07A055	007485	1/22/2008	2,285.00	$120.00	$93.75	$0.00

NWR AVERAGE LOW BID is $70.29

State AVERAGE LOW BID is $63.44

Basic Standard Item Report

NON-STANDARD ITEM REPORT— Returns a view / print report that includes all of the Bid Items used in projects that are not associated with a Standard Item Number, for the Region and the date range entered.

TABLE NON-STANDARD ITEM REPORT— Returns an EXCEL report that includes all of the Bid Items used in projects that are not associated with a Standard Item Number, for the Region and the date range entered.

The Non-Standard item reports do not contain any calculated averages, only the three low bid prices for each of the listed items.

Unit of Measure	Item Description	Job Number	Contract Number	AD Date	Planned Quantity	Low Bid	Second Bid	Third Bid
L.F.	BARBLESS 3-WIRE FENCE	07A021	007374	5/21/2007	517.00	$7.25	$7.00	$6.00
L.F.	BRIDGE TRANSVERSE JOINT SEAL	07A021	007374	5/21/2007	28.00	$25.00	$110.00	$100.00
L.F.	CONDUIT PIPE 6 IN. DIAM.	07A021	007374	5/21/2007	1,694.00	$12.80	$12.00	$12.00
EACH	REMOVE AND REPLACE FLOW RESTRICTOR	07A021	007374	5/21/2007	2.00	$960.00	$1,000.00	$1,900.00
EST.	ROADSIDE RESTORATION	07A021	007374	5/21/2007	8,000.00	$0.00	$0.00	$0.00
ACRE	SELECTIVE CLEARING, GRUBBING, AND PRUNING	07A021	007374	5/21/2007	0.10	$30,000.00	$80,000.00	$80,000.00
EACH	UTILITY MARKER TYPE 1	07A021	007374	5/21/2007	8.00	$11.10	$50.00	$15.00
EACH	UTILITY MARKER TYPE 2	07A021	007374	5/21/2007	4.00	$22.20	$50.00	$15.00

Basic Non-Standard Item Report.

STANDARD ITEM FIELD MUST BE LEFT BLANK WHEN RUNNING A NON-STANDARD ITEM QUERY.

The UBA data should be analyzed carefully. The report calculated Region cost is based on the Low Bid prices only, and includes projects of all types and sizes.

When using the UBA data, select those projects with quantities similar to that with which you are working to form a cost analysis for the Bid Item.

EXAMPLE: Project will use 2500 TONS of HMA CL. 1/2.
Looking at the UBA Data, there are three projects that are similar in quantities.

Job Number	Contract Number	AD Date	Planned Quantity	Low Bid	Second Bid	Third Bid
07A013	007314	3/12/2007	151.00	$130.00	$127.00	$130.00
07A006	007315	3/19/2007	9,360.00	$65.00	$64.00	$80.00
07A003	007320	3/26/2007	3,850.00	$70.00	$70.00	$75.00
07A008	007328	4/2/2007	920.00	$73.00	$96.50	$70.00
07A004	007337	4/9/2007	2,670.00	$74.96	$85.45	$92.00
07A014	007339	4/9/2007	44.00	$225.00	$250.00	$0.00
07A017	007342	4/9/2007	3,280.00	$70.00	$70.00	$75.00
07A804	007353	4/23/2007	2,840.00	$85.00	$0.00	$0.00
07A020	007354	4/30/2007	1,350.00	$78.00	$130.00	$0.00
07A016	007358	5/7/2007	6,640.00	$82.50	$80.00	$82.00
07A808	007363	5/14/2007	190.00	$330.00	$400.00	$250.00
07A808	007363	5/14/2007	190.00	$330.00	$400.00	$250.00
07A808	007363	5/14/2007	14.10	$330.00	$400.00	$250.00
07A808	007363	5/14/2007	14.10	$330.00	$400.00	$250.00
07A021	007374	5/21/2007	440.00	$101.00	$115.00	$100.00
07A802	007411	9/17/2007	4,500.00	$66.00	$70.00	$90.00
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07A027	007426	10/8/2007	360.00	$92.00	$128.00	$125.00
07A043	007431	10/15/2007	225.00	$155.00	$83.40	$83.50
07A043	007431	10/15/2007	31,420.00	$64.00	$62.90	$63.00
07A040	007439	10/29/2007	4,450.00	$70.00	$75.00	$75.00
07A033	007454	11/19/2007	70.50	$267.00	$338.50	$150.00
07A047	007460	12/10/2007	1,497.00	$106.00	$171.50	$210.00

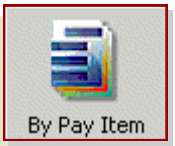
NWR AVERAGE LOW BID is $70.29

The average bid from the seven bids submitted is *$79.00*

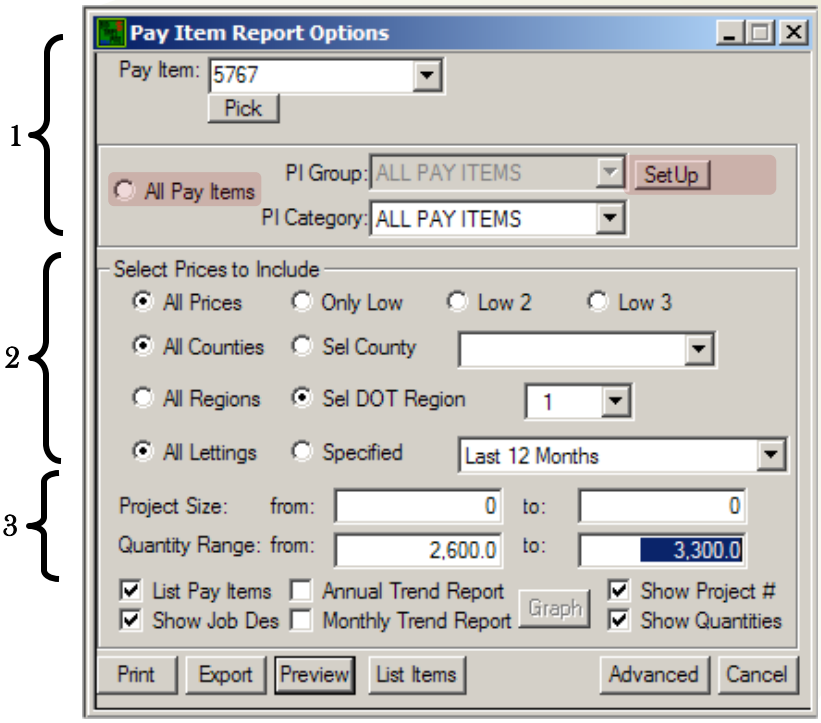
Some types of things you will need to consider that will effect the item cost, and whether you should adjust your estimated cost up or down from the averaged bid prices are:

- Do the specs contain the Asphalt Price Adjustment provision.
- Location of project.
- Time of year.
- Bidding climate.

Bid Tabs Pro (BTP) by Oman Systems



Bid Tabs Pro is a comprehensive bid history analysis tool. One of BTP's analysis tools is the Pay Item report. This feature is comparable to WSDOT's UBA. BTP allows the user to set a variety of parameters for analysis to return the most accurate bid item costs available based on historical data.



To run a simple Bid Item cost analysis:

1. Type in, or select from the pull—down menu a pay item. Alternately the user may report on a predefined *Group* of Bid Items, i.e. ASPHALT. This will report on all items associated with the Asphalt/HMA section of the standard item table.

ADVANCED FEATURE

* A user may also define their own groups of bid items to report on. This is made possible by selecting "all pay items" and clicking the SET UP button, then entering a user defined group number to the bid items to be reported on.

This example would return a report with averages for these three bid items.

***** *This* ***Group*** *column is specifically for user defined groups, the default value is blank. All numbers are those entered by the user, any number can be used to define any type of grouping, there are no restrictions.*

*GROUP	ITEM
10	1025—DITCH EXCAVATION C.Y.
10	2940—ROADWAY EXCAVATION C.Y.
10	4005—STRUCTURE EXCAVATION CL. A C.Y.

EXAMPLE

2. Select the prices to include.

Here a user sets if they will include [Only Low], [Low+2nd], [Low + 2nd + 3rd], or [All Prices] for bidders who submitted a bid for the projects.

They will also choose the counties or regions to include in the analysis, and the time frame to run the analysis for. They may choose from a pre-defined time frame or by selecting "Specified" and entering a letting date range manually.

3. Select a project size and/or bid item Quantity Range.

For a Bid Item or group of Bid Items, any combination of the criteria available may be selected for analysis and reporting.

Click Preview To view the Pay Item Report

EXAMPLE: STANDARD PAY ITEM REPORT

WASHINGTON
PAY ITEM REPORT

WSDOT — Date: 02/25/2008 Time: 04:09:35

Pay Item: 5767 HMA CL. 1/2 IN. PG 70-28

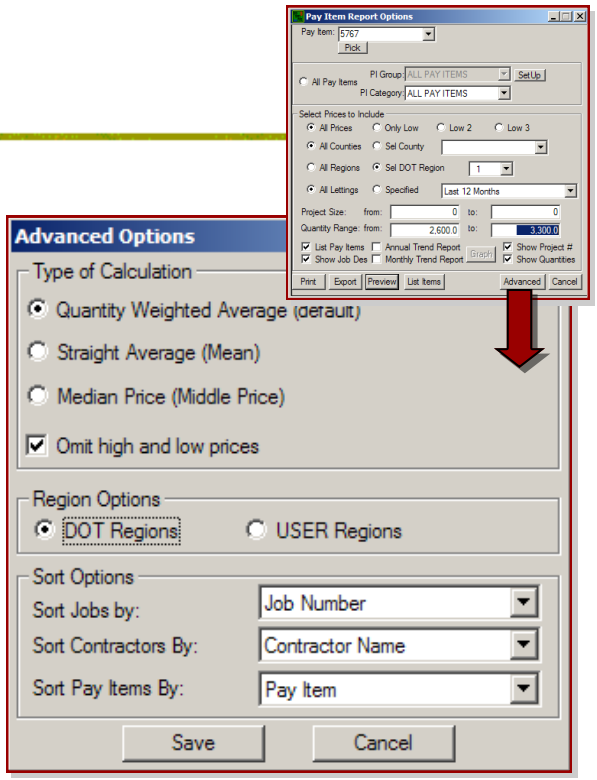
TOTALS							
High:	94.00	Wtd. Average:	82.71	Total Quan:	33,550.00	Count:	12
Low:	70.00	Strt. Average:	83.08	Avg. Quan:	2,795.83	Median:	85.23
		Std Deviation:	8.53				

Contractor	Project No.	County	Position	Bid Date	Quantity Unit	Unit Price	Extension
trimaxx construction	007298 sr 9 108th street ne (lauck road) c	snohomish	3	03/28/2007	2,690.00 TON	94.00	252,860.00
pacific road & bridge co.	007298 sr 9 108th street ne (lauck road) c	snohomish	1	03/28/2007	2,690.00 TON	79.50	213,855.00
thomco const. inc.	007298 sr 9 108th street ne (lauck road) c	snohomish	2	03/28/2007	2,690.00 TON	86.00	231,340.00
wilder construction company	007298 sr 9 108th street ne (lauck road) c	snohomish	4	03/28/2007	2,690.00 TON	72.00	193,680.00
srv construction, inc.	007298 sr 9 108th street ne (lauck road) c	snohomish	5	03/28/2007	2,690.00 TON	93.00	250,170.00
a-1 landscaping and construction	007298 sr 9 108th street ne (lauck road) c	snohomish	7	03/28/2007	2,690.00 TON	90.00	242,100.00
rinker materials west, llc dba	007337 sr 513 ne 45th st to 40th avenue ne	king	2	05/04/2007	2,670.00 TON	85.45	228,151.50
watson asphalt paving company,	007337 sr 513 ne 45th st to 40th avenue ne	king	3	05/04/2007	2,670.00 TON	92.00	245,640.00
lakeside industries	007337 sr 513 ne 45th st to 40th avenue ne	king	1	05/04/2007	2,670.00 TON	74.96	200,143.20
pacific road & bridge co.	007342 sr 542 boulder creek bridge replace	whatcom	1	05/09/2007	3,280.00 TON	70.00	229,600.00
strider construction co., inc.	007342 sr 542 boulder creek bridge replace	whatcom	3	05/09/2007	3,280.00 TON	75.00	246,000.00
wilder construction company	007353 sr 520 eastside quieter pavement ev	king	1	05/23/2007	2,840.00 TON	85.00	241,400.00

Report Settings
Selected Pay Item: 5767 :hma cl. 1/2 in. pg 70-28
Include Bidders: All Bids
Sel County/Region: DOT Region 1
Include Lettings: Last 12 Months
Quantity Range: From 2,600.00 to 3,300.00 TON
Omit High/Low Price: YES

Report options selected:
√ List Pay Items
√ Show Job Description
√ Show Project #
√ Show Quantities

BidTabs Professional — Page: 1 — ENGLISH Units



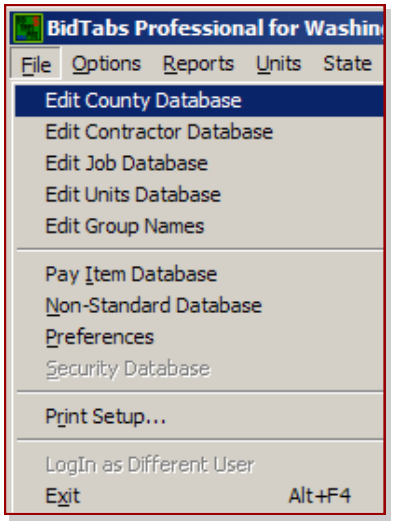
Additional options for Sorting and Reporting may be selected by clicking the "Advanced" button.

Under the Advance Options, the user chooses the type of calculation to perform on the bid item data.
This determines whether the bid cost data is returned in:

- Straight Averages
- Weighted Averages
- Median

Weighted average is the default selection, and is usually the best choice for the most common reporting needs.

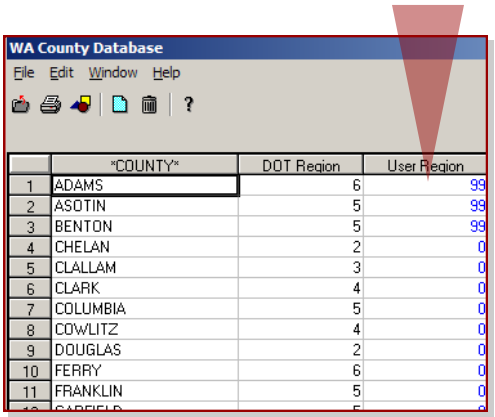
In the Region Options area, the user may choose to use the pre-defined WSDOT Regions or Select a USER Region that they setup previously. A USER Region may be setup if you need to cross Region boundaries, if you would like to add or omit counties from a Region or if you just have a couple of counties in the state that you are interested in.

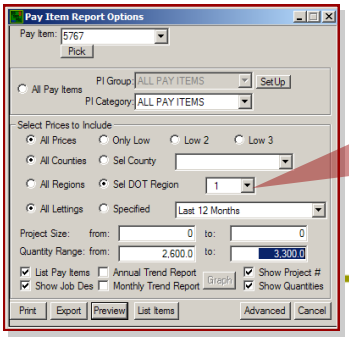


<u>To setup a USER Region:</u>

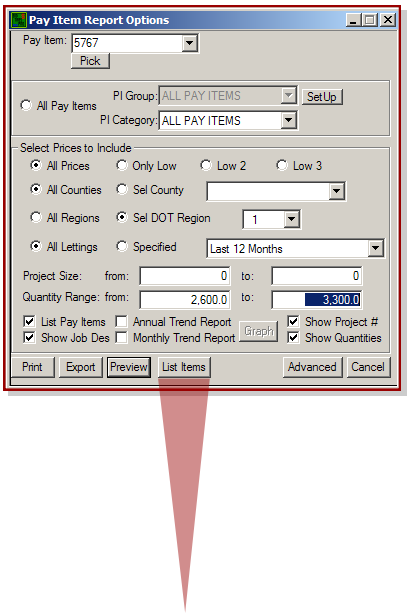
Select from the main File Menu:
Edit County Database.

This will display a mini spreadsheet where you may combine counties that you need to report on. In this example we have combined; ADAMS,ASOTIN and BENTON under USER Region 99





Now your **Pay Item Report Options** query setup dialog box will have the User Region option available for selection. To change back simply use the Advanced button, and select DOT Regions.

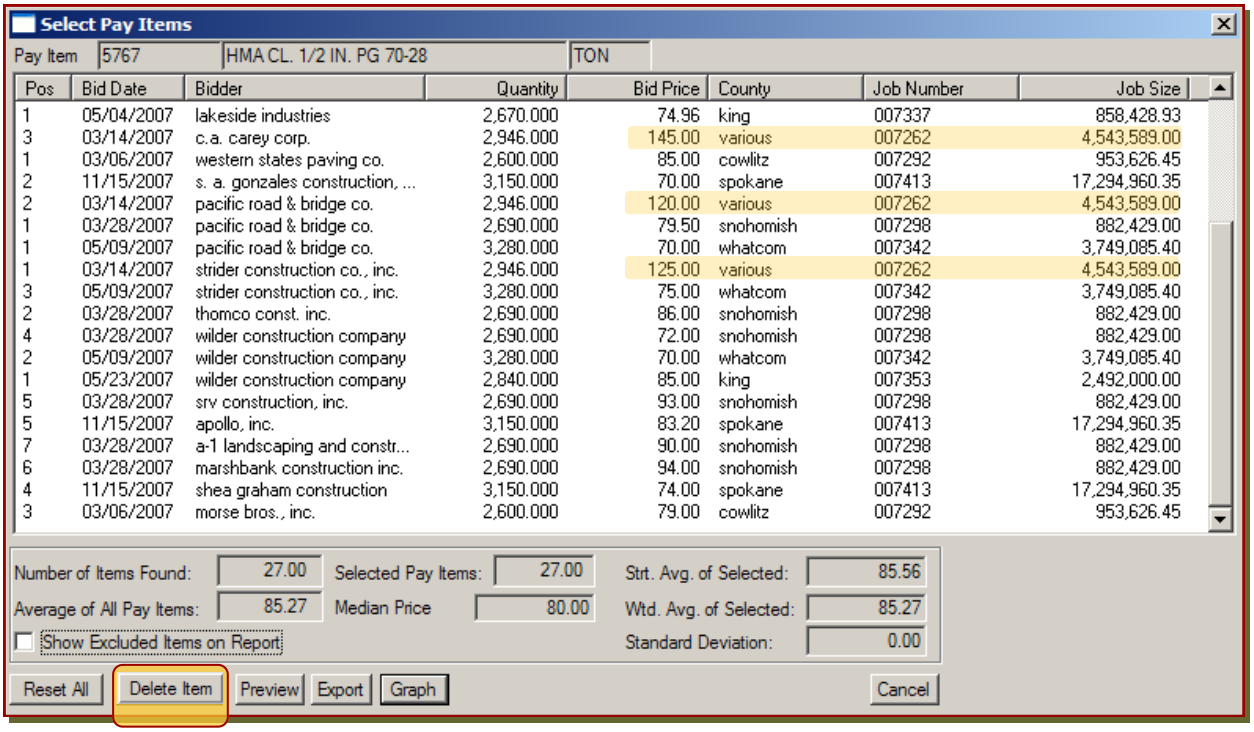


To further refine the analysis, the user may modify the found set of records by using the "LIST ITEMS" button.

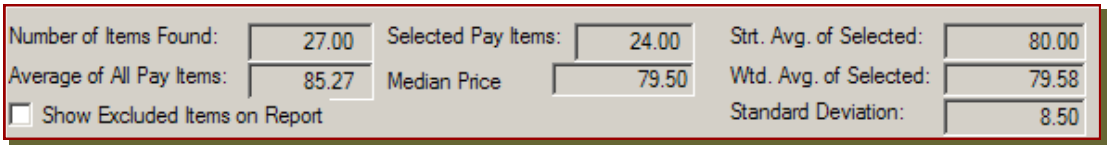
Even with the "Omit High and Low prices" Option selected in the previously mentioned Advanced Options area, there may still be Unique projects whose costs where unusual and that should not be included in the bid cost analysis.

To remove these prices from the analysis, click to select the items that you would like to omit, then click the "Delete Item" button.

(the SHIFT or CTRL keys may be used for multiple selections)

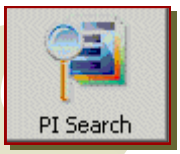


The example below illustrates how removing the bid prices associated with project #007262 effects the average cost of the bid item.



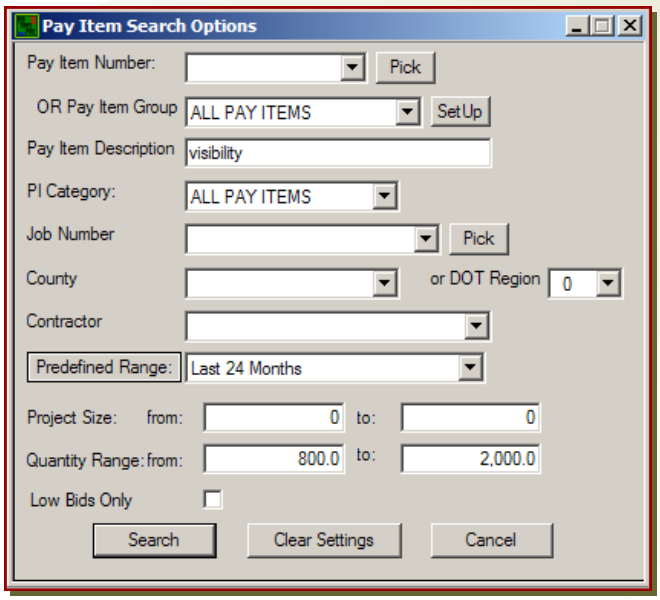
The Pay Item Report may now be printed with these revised results by clicking the "Preview" button

Finding Non-Standard Bid Items.



BTP has the ability to find Non-Standard bid Items with the **PI SEARCH** tool.

To use this search tool, Click on the PI Search button and enter the desired search parameters.



For example, The Standard Item #6630 "High Visibility Fence". Before it became a standard item, it was extensively used as a non-standard item under a variety of names, most of which included the word "**VISIBILITY**".

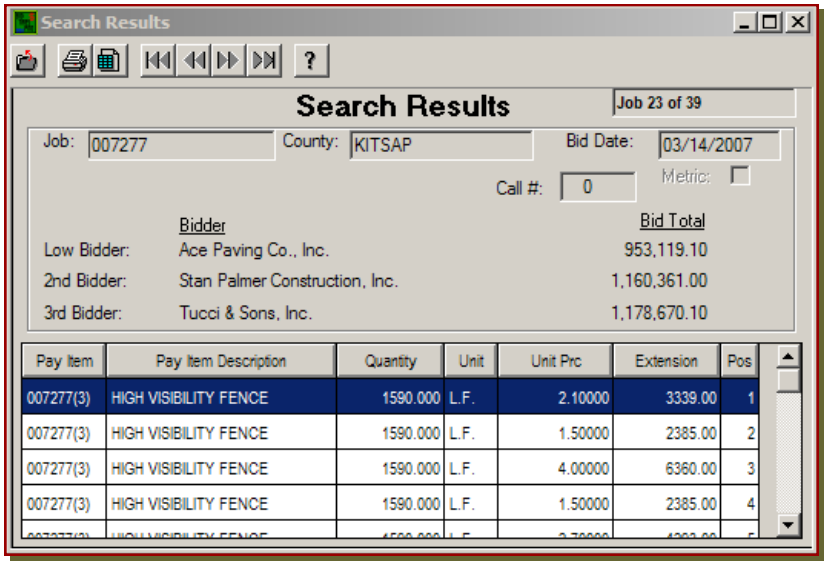
The PI Search tool may be used to find the pricing data for that item regardless of what the non-standard item was called.

1. To retrieve this data:
Type in the "Pay Item Description" area the part of the title that would most frequently be used in the description of the item.

2. Enter the other search parameters the same as you would for a Standard item search.

3. Click the "SEARCH" button.

The Search results will be displayed. These may be arrowed through to view the bid prices for all contractors in each job, or they may be exported to an Excel spreadsheet for further analysis.



For bid pricing analysis features included in Bid Tabs Pro and Bid Tabs Pro Plus
beyond those that directly replace WSDOT's UBA tool, please see the Bid Tabs Pro User's Guide at:

http://www.wsdot.wa.gov/Design/ProjectDev/EngineeringApplications/BidTabs.htm

Bid Tab Pro / Plus Help contacts are: